

10560795

Attorney Docket No. 72998-013700/US
Applicants: CORTEN, Gustave Paul et al.
US National Phase of PCT/NL2004/000421
US Express Mail No: EV640 140 458US
Filed December 14, 2005

AMENDMENTS IN THE SPECIFICATION

On page 1, please insert the following paragraph after the title:

This application is a national stage filing under 35 U.S.C. 371 of International Application PCT/NL2004/000421 filed on June 14, 2004 which claims priority from the Dutch Application No: 1023666 filed on June 14, 2003. The entire teachings of the referenced Application is incorporated herein by reference. International Application PCT/NL2004/000421 was published under PCT Article 21(2) in English.

On page 1, please insert at line 2 the following heading:

BACKGROUND

2-9
On page 1, please replace the paragraphs at lines 3-11 with the following:

1/2/05
The present invention relates to a turbine farm ~~according to the precharacterising clause of Claim 1~~. The invention furthermore relates to a method for this. Moreover, the invention relates to a control system and a control system program for implementing the method.

More generally, the invention relates to a method and/or installation ~~by means of which energy can be extracted from a flowing fluid for energy extraction from a flowing fluid~~. The term flowing fluid is used to refer both to the wind and to flowing (sea)water. The installation is understood to be a system of turbines with a control system (in particular a wind farm).

On page 5, at line 13, please insert the following heading:

SUMMARY

JB
1/2/2008

On page 5, please replace the paragraph at lines ~~17-23~~¹⁴⁻¹⁸ with the following:

To this end, the invention provides a turbine farm ~~according to the~~
precharacterising clause of Claim 1, characterised in that when comprising at least a first
turbine and at least a second turbine for energy extraction from a flowing fluid, wherein
the second turbine is on the lee side of the first turbine, under nominal power, the axial
induction of the first turbine is lowered with respect to the second turbine, to reduce
turbulence mainly at the location of the at least second turbine by turning the blade angles
of a rotor of the first turbine towards a feathering position.

JB
1/2/2008

line 27 to page 7, line 10

On page 7, please replace the paragraphs at lines ~~1-25~~ with the following:

Furthermore, the invention provides a method for operating a turbine farm,
characterised by wherein lowering the axial induction of the first turbine with respect to
 the second turbine when the second turbine is on the lee side of the first turbine, under
 nominal power, to reduce turbulence mainly at the location of the at least second turbine
by turning the blade angles of a rotor of the first turbine towards a feathering position.

In addition, the invention provides a control system for operating the turbine farm as described above, ~~characterised in that~~ wherein the control system is able, when the second turbine is on the lee side of the first turbine, under nominal power, to lower the axial induction of the first turbine with respect to the second turbine ~~to reduce turbulence~~
mainly at the location of the at least second turbine by turning the blade angles of a rotor
of the first turbine towards a feathering position.

The present invention also provides design software for a turbine farm as described above, ~~characterised in that~~ wherein the software is able to add guiding elements to the installation, where turbines have a guiding function, and when the second turbine is on the lee side of the first turbine, under nominal power, the axial induction of the first turbine is lowered with respect to the second turbine ~~to reduce turbulence mainly at the~~

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~~location of the at least second turbine by turning the blade angles of a rotor of the first turbine towards a feathering position, to calculate the influence thereof on the turbine farm.~~

Furthermore, the present invention provides control software for a turbine farm as described above, characterised in that wherein the control software is able when the second turbine is on the lee side of the first turbine, under nominal power, to lower the axial induction of the first turbine with respect to the second turbine ~~to reduce turbulence mainly at the location of the at least second turbine by turning the blade angles of a rotor of the first turbine towards a feathering position.~~

On page 10, at line 7, please insert the following heading:

BRIEF DESCRIPTION OF DRAWINGS


On page 10, at line 11, please insert the following heading:

DETAILED DESCRIPTION


Please insert the Abstract, appearing on the following page, immediately after the last page of claims.